DECLARATION AND POWER OF ATTORNEY FOR ORIGINAL U.S. PATENT APPLICATION

As a below-named inventor, I hereby declare that:

1.

(check one)

My residence, post office address and citizenship are as stated below next to my name.

is attached hereto.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: END-POINT DETECTION SYSTEM FOR CHEMICAL MECHANICAL POLISHING APPLICATIONS, the specification of which,

2. was filed on			as	
U.S. Application Serial No.				
	а	nd was amended on	· °	
3	I. □ W	as filed on		
_		nternational PCT Ap	as as	
٠	a	nd was amended on		-
I hereby state that I have ramended by any amendmen	eviewed : t referred	and understand the to above.	contents of the above-ident	ified specification, including the claims, as
I acknowledge the duty to d 37, CFR § 1.56.	lisclose in	formation which is	material to the examination	of this application in accordance with Title
than the United States, liste	ncate, or ed below	§ 365(a) of any PC and have identifie	CT International application d below, by checking the	(d) or § 365(b) of any foreign application(s) which designated at least one country other box, any foreign application for patent or hat of the application on which priority is
Prior Foreign Application(s) ·		:	Priority Benefits Claimed? Yes No
(Appl. N .)	(C	ountry)	(Filing Date)	
				Yes No
(Appl. No.)	(C	ountry)	(Filing Date)	
				Yes No
(Appl. No.)	(Ca	ountry)	(Filing Date)	
hereby claim the benefit und	ler 35 U.S	S.C. §119(e) of any	United States provisional ap	plication(s) listed below:
Application Serial No.)	<u> </u>	(Filing Date)		
Application Serial No.)		(Filing Date)		
				•

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International applicati n in the manner provided by the first paragraph of Title 35, United States C de, § 112, I acknowledg the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Attorney's Docket No. LAM2P189

(Application Serial No.) (Application Serial No.)		(Filing Date)	(Status - patented, pending, a	(Status - patented, pending, abandoned)		
		(Filing Date)	(Status - patented, pending, a	bandoned)		
(Reg. No. 39,487); Ray (Reg. No. P45,742), Ed	ymis H. Kim (Reg. dmund H. Mizumo o. 35,521) of Lam R	No. 39,462); Chestoto, (Reg. No. P-46,5 desearch Corporation	cluding Peter B. Martine (Reg. No. 19,711); 938) and Jeffrey J. Brooks (Reg. n, as my principal attorneys to prod therewith:	Anthony J. Josephs n, Jr. No. 35,834); and Marilyn		
Send Correspondence		Albert S. Penilla MARTINE PEN 710 Lakeway Dr Sunnyvale, CA	ILLA & KIM, LLP ive, Suite 170			
Direct Telephone Calls	To:	Albert S. Penilla, Es	sq. (408) 749-6903			
belief are believed to be like so made are punisha such willful false stateme	true; and further than able by fine or impri ents may jeopardize	t these statements wer sonment, or both, unc	viedge are true and that all statement re made with the knowledge that winder section 1001 of Title 18 of the polication or any patent issuing there	llful false statements and the United States Code, and that		
Typewritten Full Name of Sole or First Inventor:	of <u>Katrina A. Mikhay</u>	/lich	Citizenship:	Russia		
Inventor's signature:			Date of Signature:_			
Residence: (City)	San Jose		(State/Country)	CA		
Post Office Address:	1809 Willow Lake	Lane, San Jose, CA	95131	·		
Full Name of Second Join	·					
Inventor (if any):	Mike Ravkin		Citizenship:	USA		
Inventor's signature:	Make	Rawhin	Date of Signature:_	86/30/00		
	Summingle		(State/Country)	CA		
Residence: (City)	Sunnyvale					
Residence: (City) Post Office Address:		bocker Drive, Sunny	vale, CA 94087			
(11,5)		bocker Drive, Sunny	vale, CA 94087 Citizenship: Date of Signature:	Israel		

39109 Guardino Dr., #241, Fremont, CA 94538

Post Office Address:

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. Attorney's Docket No. LAM2P189

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I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: END-POINT DETECTION SYSTEM FOR CHEMICAL MECHANICAL POLISHING APPLICATIONS, the specification of which,

claimed: Prior Foreign Ap (Appl. No.) (Appl. No.) (Appl. No.)	plication(s)	(Country) (Country)	(Filing Date) (Filing Date) (Filing Date) United States provisional approximation of the states o	Priority Benefits Claimed? Yes No Yes No Yes No
claimed: Prior Foreign Ap (Appl. No.)		(Country)	(Filing Date) (Filing Date)	Priority Benefits Claimed? Yes No
claimed: Prior Foreign Ap (Appl. No.)		(Country)	(Filing Date)	Priority Benefits Claimed? Yes No
claimed: Prior Foreign Ap				Priority Benefits Claimed? Yes No
claimed:				Priority Benefits Claimed?
	•	•		2
for patent or inver	tor's certificate	a, or § 365(a) of any PC1	International application w	i) or § 365(b) of any foreign application(s) thich designated at least one country other ox, any foreign application for patent or at of the application on which priority is
I acknowledge the 37, CFR § 1.56.	duty to disclos	e information which is ma	sterial to the examination o	f this application in accordance with Title
I hereby state that amended by any ar	I have review mendment refer	ed and understand the contred to above.	ntents of the above-identifi	ied specification, including the claims, as
		and was amended on	eation Serial No.	
3.	3. 🔲	was filed on		85
			70.	
	2.	was filed on	Yo	as .
		is attached hereto.		-

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial N.) (Filing Date) (Status - patented, pending, abandoned) (Application Serial No.) (Filing Date) (Status - patented, pending, abandoned) And I hereby appoint the law firm of Martine Penilla & Kim, including Peter B. Martine (Reg. No. 32,043); Albert S. (Reg. No. 39,487); Rayanis H. Kim (Reg. No. 39,462); Chester E. Martine (Reg. No. 19,711); Anthony J. Josephs (Reg. No. 1945,742), Edmand H. Mizumoto, (Reg. No. P-46,938) and Jeffrey J. Brooks (Reg. No. 58,543); and J. Glaubenskie (Reg. No. 35,521) of Lam Research Corporation, as my principal attorneys to prosecute this application transact all business in the Patent and Trademark Office connected therewith: Send Correspondence To: Albert S. Penilla, Esq. MARTINE PENILLA & KIM, LLP 710 Lakeway Drive, Suite 170 Sunnyvale, CA 94086 Direct Telephone Calls To: Albert S. Penilla, Esq. (408) 749-6903 I hereby declare that all statements made herein of my own knowledge are true and that all statements made on informatic belief are believed to be true; and further that these statements were made with the knowledge that willful false statements as such willful false statements made on informatic like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, at such willful false statements may jecopardize the validity of the application or any patent issuing thereon. Typewritten Full Name of Sole or First Inventor: San Iose (State/Country) CA Citizenship: Mike Raykin Citizenship: Jusa Date of Signature: Date of Signature: Date of Signature: Post Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087	Prior U.S. Applic	ation(s)					
(Application Serial No.) (Füing Date) (Status - patented, pending, aband ned) And I hereby appoint the law firm of Martine Penilla & Kim, including Peter B. Martine (Reg. No. 32,043); Albert S. (Reg. No. 39,487); Raymis H. Kim (Reg. No. 39,462); Chester E. Martine (Reg. No. 19,711); Anthony J. Josephs (Reg. No. 19,712); Edmund H. Mizumoto, (Reg. No. P46,742). Edmund H. Mizumoto, (Reg. No. P46,743) and Jeffrey J. Brooks (Reg. No. 35,834); and N. Glaubenskhee (Reg. No. 35,5234); and N. grincipal attorneys to prosecute this application transact all business in the Patent and Trademark Office connected therewith: Send Correspondence To: Albert S. Penilla, Esq. MARTINE PENILLA & KIM, LLP 710 Lakeway Drive, Suite 170 Sunnyvale, CA 94086 Direct Telephone Calls To: Albert S. Penilla, Esq. (408) 749-6903 I hereby declare that all statements made herein of my own knowledge are true and that all statements made on informatic belief are believed to be true; and further that these statements were made with the knowledge that willful false statements as such willful false statements may jeopardize the validity of the application or any patent issuing thereon. Pypewritten Full Name of Sole or First Inventor: Karina AMBRAVIGH Post Office Address: (City) San Jose (State/Country) CA Citizenship: USA Naventor's signature: Date of Signature: Date of Signature: Cesidence: (City) Sunnyvale (State/Country) CA Citizenship: USA Naventor's signature: Date of Signature: Cesidence: (City) Sunnyvale (State/Country) CA Citizenship: USA Naventor's signature: Cesidence: (City) Sunnyvale (State/Country) CA Citizenship: USA Naventor's signature: Cesidence: (City) Sunnyvale (State/Country) CA Citizenship: USA	(Application Seria	IN .)	(Filing Date)	(Status - natented pending	hand.		
And I hereby appoint the law firm of Martine Penilla & Kim, including Peter B. Martine (Reg. No. 32,043); Albert S. (Reg. No. 39,487); Raywis H. Kim (Reg. No. 39,462); Chester E. Martine (Reg. No. 19,711); Anthony J. Josephs (Reg. No. 35,742), Edmand H. Mizumoto, (Reg. No. P-46,938) and Jeffrey J. Brooks (Reg. No. 35,834); and North Mizumoto, (Reg. No. 19,711); Anthony J. Josephs (Reg. No. 35,721) of Lam Research Corporation, as my principal attorneys to prosecute this application transact all business in the Patent and Trademark Office connected therewith: Send Correspondence To: Albert S. Penilla, Esq. MARTINE PENILLA & KIM, LLP 710 Lakeway Drive, Suite 170 Sunnyvale, CA 94086 Direct Telephone Calls To: Albert S. Penilla, Esq. (408) 749-6903 Albe			• ,	(outes of futerities, bending, a	ibandoned)		
(Reg. No. P45,742), Edmund H. Mizumoto, (Reg. No. P-46,938) and Jeffrey J. Brooke (Reg. No. 35,834); and be transact all business in the Parent and Trademark Office connected therewith: Send Correspondence To: Albert S. Penilla, Esq. MARTINE PENILLA & KIM, LLP 710 Lakeway Drive, Suite 170 Sunnyvale, CA 94086 Direct Telephone Calls To: Albert S. Penilla, Esq. (408) 749-6903 hereby declare that all statements made herein of my own knowledge are true and that all statements made on informatic like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, are under willful false statements may jeopardize the validity of the application or any patent issuing thereon. Send Correspondence To: Albert S. Penilla, Esq. (408) 749-6903 hereby declare that all statements made herein of my own knowledge are true and that all statements made on informatic like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, are unchable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, are unchable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, are unchable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, are unchable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, are unchable by fine or imprisonments. Send Correspondence (City) San Jose (State/Country) Chables of Signature: Date of Signatu	(Application Serial	No.)	(Filing Date)	(Status - patented, pending, a	band ned)		
Albert S. Penilla, Esq. MARTINE PENILLA & KIM, LLP 710 Lakeway Drive, Suite 170 Sunnyvale, CA 94086 Direct Telephone Calls To: Albert S. Penilla, Esq. (408) 749-6903 Thereby declare that all statements made herein of my own knowledge are true and that all statements made on informatic its eso made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, are under willful false statements may jeopardize the validity of the application or any patent issuing thereon. Sypewritten Full Name of ole or First Inventor: Sarina A Mikhavlich Citizenship: Russia Nentor's signature: Date of Signature: Date of Signature: Date of Signature: USA Will Name of Second Joint Ventor (if any): Mike Ravkin Date of Signature: Date of Signature: Citizenship: USA Date of Signature: Date	(Reg. No. P45,742 Glaubenskies (Reg), Edmund H. Mi k. No. 35.521) of L	zumoto, (Reg. No. P-46,93	38) and Jeffrey J. Brooks (Reg.	Anthony J. Josephson,		
Thereby declare that all statements made herein of my own knowledge are true and that all statements made on informatic belief are believed to be true; and further that these statements were made with the knowledge that willful false statements as it is so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, as use willful false statements may jeopardize the validity of the application or any patent issuing thereon. Spewritten Full Name of cole or First Inventor: Katrina A Mikhaylich Citizenship: Russia Date of Signature: Of 30/00 Candidates: 1809 Willow Lake Lane, San Jose, CA 95131 Will Name of Second Joint towntor (if any): Mike Raykin Date of Signature: Date of Signature: Citizenship: USA Date of Signature: Sunnyvale (City) Sunnyvale (State/Country) CA Citizenship: USA Date of Signature: Citizenship: Listael			Albert S. Penilla, MARTINE PENI 710 Lakeway Driv	Albert S. Penilla, Esq. MARTINE PENILLA & KIM, LLP 710 Lakeway Drive, Suite 170			
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desidence: (City) San Jose (State/Country) CA Sost Office Address: 1809 Willow Lake Lane, San Jose, CA 95131 The solution of Second Joint any inventor (if any): Mike Ravkin Citizenship: USA Aventor's signature: Date of Signature: Sost Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 The solution of Third Joint (State/Country) Yehiel Gotkis Citizenship: Israel	Typewritten Full Nau Sole or First Inventor	ne of Katrina A.M	dize the validity of the appli	Citizenship:	on.		
ost Office Address: 1809 Willow Lake Lane, San Jose, CA 95131 full Name of Second Joint forential (if any): Mike Ravkin Citizenship: USA neventor's signature: Date of Signature: esidence: (City) Sunnyvale (State/Country) CA ost Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 full Name of Third Joint forential Iventor (if any): Yehiel Gotkis Citizenship: Israel		,	way for	Date of Signature:	06/30/00		
uil Name of Second Joint nventor (if any): Mike Ravkin Citizenship: USA nventor's signature: Date of Signature: esidence: (City) Sunnyvale (State/Country) CA ost Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 uil Name of Third Joint eventor (if any): Yehiel Gotkis Citizenship: Israel	desidence: (Ci	ty) San Jose	<u> </u>	(State/Country)	CA		
Aventor (if any): Mike Ravkin Citizenship: USA Date of Signature: esidence: (City) Sunnyvale (State/Country) CA Dist Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 USA Citizenship: USA Citizenship: Israel	ost Office Address:	1809 Willow	Lake Lane, San Jose, CA 9	5131			
Aventor (if any): Mike Ravkin Citizenship: Date of Signature: csidence: (City) Sunnyvale (State/Country) CA Dist Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 Dist Office Address: Yehiel Gotkis Citizenship: Israel	ull Name of Course	¥-1					
Date of Signature: City Sunnyvale (State/Country) CA Dist Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 Dist Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 Dist Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 Dist Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 Dist Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087				Citizenship:	USA		
ost Office Address: 1215 West Knickerbocker Drive, Sunnyvale, CA 94087 Ill Name of Third Joint ventor (if any): Yehiel Gotkis Citizenship: Israel	ventor's signature	•					
ull Name of Third Joint ventor (if any): Yehiel Gotkis Citizenship: Israel	esidence: (Ci	y) <u>Sunnyvale</u>	•	(State/Country)	CA		
ull Name of Third Joint ventor (if any): Yehiel Gotkis Citizenship: Israel	ost Office Address:	1215 West Kr	nickerbocker Drive, Sunnyv	ale, CA 94087			
ventor's signature: Date of Signature:		oint			Israel		
	ventor's signature			Date of Signature:			
esidence: (City) Fremont (State/Country) CA	≾idence: (Cit	y) Fremont		(State/Country)	CA		

Post Office Address: